



King County

**INDUSTRIAL INSTRUMENT TECHNICIAN
DEPARTMENT OF NATURAL RESOURCES & PARKS
WASTEWATER TREATMENT DIVISION**

Hourly Rate Range: \$31.89 – 33.44 (plus \$1.59 productivity pay)

Job Announcement: 06DE5937

OPEN: 4/17/06

CLOSE: 5/5/06

WHO MAY APPLY: This position is open to the general public.

WHERE TO APPLY: Required forms and materials must be sent to: 201 S. Jackson Street, M.S. KSC-NR-511, Seattle, WA 98104. Application materials must be received by 4:00 p.m. on the closing date. (Postmarks are Not Accepted.) Contact Diana Eberly-Shepard at 206-263-3911 or by e-mail diana.eberly-shepard@metrokc.gov for further inquiries. **Please note:** Applications not received at the location and by the closing date and time specified above will not be processed.

FORMS AND MATERIALS REQUIRED: A King County application form and data sheet, (<http://www.metrokc.gov/ohrm/jobs/JobApplications.htm>), resume, and letter of interest describing how you meet or exceed the minimum qualifications.

WORK LOCATION: 1400 Utah Street W. Seattle, WA 98191 (West Point Treatment Plant – No public transportation available)

WORK SCHEDULE: Currently this position works 4 days, 10 hours shifts. Applicants must be available to work any assigned schedule. This position is overtime eligible.

JOB SUMMARY: The responsibilities of this classification include performing a wide variety of highly skilled technical and journey-level duties to design, construct, maintain, troubleshoot and modify computerized systems, electronics, pneumatics, hydraulics and related instrumentation. This position requires the use of analytical skills in implementing various aspects of process control.

PRIMARY JOB DUTIES INCLUDE:

- Troubleshoot, repair and maintain all plant control systems (computer, electronic, pneumatic and hydraulic).
- Use considerable knowledge of chemistry and physics to analyze industrial processes in troubleshooting and repair of process control instrumentation. Use this same knowledge base to design new controls and implement modifications to existing control systems.
- Troubleshoot and repair distributed control systems (DCSs) and programmable logic controllers (PLCs). Use applied electronic theory, digital electronics and proportional integral derivative (PID) control strategies to implement program changes to DCSs and PLCs.
- Update technical and program documentation. Determine appropriate inventory of spare parts for critical instrumentation.
- Review blueprints, work orders and shop drawings to facilitate coordination of maintenance efforts.
- Assist in inspection of instrumentation installed by contractors. Witness and assess loop commission testing.
- Work with operations personnel, engineers and suppliers to explain the functioning of processes and procedures needed for the operation of new equipment
- Ability to lift and move 50 pounds
- Provide on-the-job training for new and subordinate personnel.
- Subject to 24-hour call and responds to emergencies

MINIMUM QUALIFICATIONS: (These are entry requirements and may vary by position.)

- Knowledge equivalent to three years of journey-level experience in a related field such as instrumentation, electronics
- Knowledge of basic mathematics
- Knowledge of electronic/electrical circuits and instrumentation test equipment
- Knowledge of physics and chemistry
- Knowledge of PID control loops.
- Knowledge of soldering techniques
- Analytical skills
- Communications skills (verbal and written)
- Computer skills
- Skill in using electrical and electronic test equipment
- Skill in safely operating power tools and using customary hand tools

- Skill in effectively troubleshooting equipment using limited documentation.
- Skill in working in harsh environments and in emergency situations
- Skill in designing or modifying technical publications and instrument/electrical drawings
- Skill in applying codes and guidelines in the design, installation and maintenance of all plant instrumentation
- Skill in working safely around electrical, mechanical and environmental hazards
- Skill in working well with others

LICENSING/CERTIFICATION REQUIREMENTS:

- Washington State Driver's License
- Completion of an apprentice program, or two years of technical schooling, or the equivalent related experience.
- CPR / First Aid (desired)

SELECTION PROCESS: Application materials will be screened for clarity, completeness, and responsiveness to the list of qualifications, skills, and abilities. Competitive applicants will be invited to participate in hands on testing and the most competitive candidates will proceed to a panel interview. The panel will make a referral to the Hiring Authority; if appropriate, the Hiring Authority will conduct a second interview. Reviews of performance appraisals, personnel files, internal references, BT / Vacation usage logs, etc., will also be conducted prior to any final offer.

UNION MEMBERSHIP: This position is represented by S.E.I.U. Local 925

WORKING CONDITIONS: Working at a Wastewater Treatment facility

Class Code: 831101